

Table S10. Association results for B₁₂ and folate associated markers with potential co-morbid conditions in Icelanders

		Discovery B ₁₂ or folate		Coronary artery disease (21,507 cases 86,028 contr.)		Stroke (3,829 cases 107,212 contr.)		Colorectal Cancer (3,450 cases 69,000 contr.)		Prostate Cancer (4,792 cases 71,880 contr.)		Alzheimer (3,550 cases 110,050 controls)		MCV (49,385)		MCH (49,385)		Creatinine (44,397)		Homocysteine (2,297)	
		Gene	Effect	EAF	P	OR	P	OR	P	OR	P	OR	P	Effect	P	Effect	P	Effect	P	Effect	P
B₁₂ associated SNVs																					
rs12272669	MMACHC	0.51	0.0026	0.051	0.739	0.42	0.788	0.91	1.042	0.42	0.783	0.53	0.800	-0.042	0.46	-0.032	0.56	-0.04	0.41	-0.13	0.67
rs2336573	CD320	0.32	0.033	0.07	0.923	0.69	0.969	0.54	1.068	0.15	1.120	0.20	1.127	-0.011	0.51	0	0.97	-0.003	0.82	0.022	0.73
rs34324219	TCN1	0.21	0.891	0.79	1.007	0.83	1.010	0.10	1.116	0.023	1.114	0.92	0.994	0.003	0.76	0.001	0.88	0.002	0.82	0.03	0.4
rs1131603	TCN2	0.19	0.051	0.55	0.979	0.25	1.074	0.13	1.140	0.30	1.068	0.28	1.087	0.023	0.08	0.021	0.09	0.005	0.64	0.016	0.76
rs41281112	CLYBL	0.17	0.944	0.092	0.945	0.05	0.887	0.71	0.967	0.39	1.057	0.65	1.035	-0.017	0.16	-0.013	0.28	-0.0008	0.90	-0.043	0.39
rs34528912	TCN1	0.17	0.035	0.81	1.010	0.63	0.964	0.61	0.947	0.65	0.965	0.97	0.996	-0.003	0.83	0.003	0.85	0.008	0.53	0.034	0.56
rs602662	FUT2	0.16	0.634	0.75	1.005	0.79	1.008	0.19	1.057	0.58	0.983	0.21	1.047	0.004	0.54	0.004	0.51	0.013	0.007	-0.012	0.61
rs117456053	Near TCN1	0.16	0.976	0.55	0.970	0.11	1.168	0.80	1.035	0.32	0.912	0.29	1.126	0.019	0.33	0.023	0.22	-0.01	0.37	-0.124	0.08
rs1801222	CUBN	0.11	0.582	0.00085	1.053	0.058	1.056	0.59	0.978	0.18	1.041	0.22	1.045	0.004	0.48	0.004	0.52	0.007	0.12	-0.025	0.29
rs56077122	CUBN	0.087	0.333	0.54	0.990	0.58	0.983	0.66	1.018	0.44	0.977	0.29	0.962	-0.007	0.27	-0.004	0.49	0.007	0.13	0.007	0.77
rs2270655	MMAA	0.066	0.949	0.82	1.008	0.74	0.979	0.54	1.057	0.14	0.911	0.57	0.957	0.008	0.53	0.005	0.68	-0.03	0.002	0.022	0.67
rs5753231	TCN2	0.064	0.793	0.15	0.974	0.59	0.981	0.62	0.976	0.10	0.943	0.71	1.016	0.003	0.63	0.007	0.34	-0.002	0.71	-0.063	0.03
rs1141321	MUT	0.061	0.6	0.02	0.965	0.79	1.008	0.96	1.002	0.73	0.990	0.50	0.976	-0.001	0.85	-0.003	0.5	3×10^{-04}	0.94	-0.07	0.001
rs708686	FUT6	0.046	0.235	0.98	1.000	0.11	1.055	0.34	1.046	0.72	0.988	1.00	1.000	0.005	0.44	0.004	0.59	1×10^{-04}	0.93	0.01	0.72
rs3742801	ABCD4	0.045	0.275	0.41	0.986	0.48	0.978	0.42	1.036	0.21	1.041	0.36	1.036	0.009	0.14	0.01	0.13	0.002	0.7	-0.008	0.76
Folate associated SNVs																					
rs17421511	MTHFR	0.098	0.83	0.41	0.984	0.00086	0.885	0.78	0.985	0.94	0.997	0.61	0.977	-0.007	0.37	-0.004	0.55	-0.002	0.82	-0.093	0.002
rs1801133	MTHFR	0.096	0.655	0.31	1.016	0.62	1.015	0.026	1.099	0.45	1.023	0.82	1.008	-0.013	0.03	-0.016	0.007	-0.01	0.08	-0.094	9.8×10^{-5}
rs139130389 (INDEL)	FOLR3	0.087	0.104	0.65	0.989	0.83	1.010	0.91	0.992	0.04	1.104	0.24	0.933	0.002	0.82	-0.001	0.87	-0.01	0.42	0.059	0.11
rs652197	FOLR3	0.069	0.178	0.43	1.016	0.73	0.987	0.59	1.028	0.018	1.092	0.22	0.945	0.002	0.75	0	0.98	0.003	0.64	0.029	0.34

^a Effect size and effect allele frequency from the Icelandic population

Associations at P < 0.001 are shown in bold.

EAF, effect allele frequency; MCV, mean corpuscular volume; MCH, mean corpuscular hemoglobin.